

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/FI2005/000112

International filing date (day/month/year)
23.02.2005

Priority date (day/month/year)
24.02.2004

International Patent Classification (IPC) or both national classification and IPC
D21C9/08, D21C9/16

Applicant
KEMIRA OYJ

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

24.12.09

3. For further details, see notes to Form PCT/ISA/220.

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/FI2005/000112

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/FI2005/000112

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | |
|-------------------------------|-------------|------|
| Novelty (N) | Yes: Claims | 1-20 |
| | No: Claims | NONE |
| Inventive step (IS) | Yes: Claims | NONE |
| | No: Claims | 1-20 |
| Industrial applicability (IA) | Yes: Claims | 1-20 |
| | No: Claims | NONE |

2. Citations and explanations

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

Reference is made to the following documents:

- D1: DE 34 23 452 A1 (SANDOZ-PATENT-GMBH) 2 January 1986 (1986-01-02)
cited in the application
- D2: US-A-4 363 699 (DECEUSTER ET AL) 14 December 1982 (1982-12-14) cited
in the application
- D3: US-A-4 963 157 (MACHIDA ET AL) 16 October 1990 (1990-10-16) cited in the
application
- D4: PATENT ABSTRACTS OF JAPAN vol. 018, no. 170 (C-1182), 23 March 1994
(1994-03-23) & JP 05 331789 A (MITSUBISHI GAS CHEM CO INC), 14
December 1993 (1993-12-14)

1. From documents **D1-D3** (see abstracts) there is known the use of poly-alfa-hydroxyacrylic acid as a stabilizer in methods of bleaching a cellulosic fiber material with peroxide. From **D4** the use of surfactants in peroxide bleaching of cellulosic fiber materials is known. Furthermore, bleaching methods such as those disclosed in **D1-D4** all inherently comprise a dewatering or washing for removing extractives along with the aqueous phase. Thus the subject-matter of claim 1 would not appear more than a mere collocation of known measures in the art not resulting in any other effects than what would be foreseeable by the skilled man. Therefore, the subject-matter of claim 1 would not appear inventive; Art. 33(3) PCT.
2. A similar reasoning applies to claim 11; Art. 33(3) PCT.
3. Claims 2-4, 12-14 only relate to positions of adding which are well-known to the skilled man in the field; Art. 33(3) PCT.
4. Normally dilution water is added before a dewater/washing stage as required by claims 5 and 15; Art. 33(3) PCT.

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**WRITTEN OPINION OF THE
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AUTHORITY (SEPARATE SHEET)**

International application No.

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5. No particular effects would appear to arise from claims 6 and 16 subject-matter; Art. 33(3) PCT.
6. The stabilizers of claims 7 and 17 are well-known in the art as the applicant also acknowledges; Art. 33(3) PCT.
7. The ranges of claims 8, 18 and 20 result from a routine optimization; Art. 33(3) PCT.
8. The surfactants of claims 9 and 18 are such which are commonly used for e.g. deinking in the field; Art. 33(3) PCT.
9. For the assessment of the present claims on the question whether they are industrially applicable, no particular reasoning would appear necessary to give. The industrial application would appear to be evident (Art. 33(4) PCT).

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